

CLAIMS

1. An irrigation sprinkler, comprising:
- an outer housing having a lower inlet end connectable to a source of pressurized water;
- a riser vertically reciprocable along a vertical axis within the outer housing between extended and retracted positions when the source of pressurized water is turned ON and OFF;
- a nozzle mounted at an upper end of the riser for distributing water therefrom;
- a strainer mounted inside the outer housing and configured to filter debris from water passing through the lower inlet end of the outer housing; and
- a scrubber mounted within the outer housing and configured for scraping accumulated debris from the strainer.
2. The irrigation sprinkler of Claim 1 wherein the strainer is mounted to a lower end of the riser.
3. The irrigation sprinkler of Claim 2 wherein the scrubber is mounted to the inlet end of the outer housing.
4. The irrigation sprinkler of Claim 1 wherein the scrubber includes at least one resilient arm that presses a wiper blade against the strainer.
5. The irrigation sprinkler of Claim 1 wherein the scrubber includes a plurality of vertically extending resilient arms each configured for pressing a wiper blade at an upper end thereof against the strainer.
6. The irrigation sprinkler of Claim 1 wherein the strainer is mounted to a lower end of the riser, and the scrubber is mounted to the inlet end of the outer housing and includes a

4 plurality of circumferentially spaced vertically extending arms each having a wiper blade at an upper
end thereof for scraping an outer surface of the strainer.

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2 7. The irrigation sprinkler of Claim 6 wherein the strainer has a frusto-conical
configuration.

2 8. The irrigation sprinkler of Claim 7 wherein the scrubber has a generally cylindrical
configuration.

9. The irrigation sprinkler of Claim 1 wherein the strainer has a finer mesh section and
a coarser mesh section.

10. The irrigation sprinkler of Claim 9 wherein the finer mesh sections is made of a
lattice of first openings of a first size and the coarser mesh section is made of a lattice of second
openings of a second size larger than the first size.

11. An irrigation sprinkler, comprising:
an outer housing having a lower inlet end connectable to a source of pressurized water;
a riser vertically reciprocable along a vertical axis within the outer housing between
extended and retracted positions when the source of pressurized water is turned ON and OFF;
a nozzle mounted at an upper end of the riser for distributing water therefrom; and
a strainer mounted inside the outer housing and configured to filter debris from water
passing through the lower inlet end of the outer housing, the strainer having a finer mesh section
and a coarser mesh section.

12. The irrigation sprinkler of Claim 11 wherein the strainer is mounted to a lower end
of the riser.

2 13. The irrigation sprinkler of Claim 11 and further comprising a scrubber mounted within the outer housing and configured for scraping accumulated debris from the strainer.

2 14. The irrigation sprinkler of Claim 11 wherein the finer mesh section and the coarser mesh section are circumferentially spaced from one another.

2 15. The irrigation sprinkler of Claim 11 wherein the finer mesh sections is made of a lattice of first openings of a first size and the coarser mesh section is made of a lattice of second openings of a second size larger than the first size.

16. An irrigation sprinkler, comprising:
an outer housing having a lower inlet end connectable to a source of pressurized water and a plurality of circumferentially spaced vertically extending ribs formed on an interior wall thereof;
a riser vertically reciprocable along a vertical axis within the outer housing between extended and retracted positions when the source of pressurized water is turned ON and OFF;
a nozzle mounted at an upper end of the riser for distributing water therefrom; and
a strainer mounted inside the outer housing and configured to filter debris from water passing through the lower inlet end of the outer housing, the strainer having a plurality of circumferentially spaced projections configured and positioned to engage the ribs on the interior wall of the outer housing and deflect past the same to provide a ratchet mechanism that allows for adjustably positioning the riser in a predetermined fixed rotational relationship with the outer housing.

2 17. The irrigation sprinkler of Claim 16 wherein the strainer is mounted to a lower end of the riser.

2 18. The irrigation sprinkler of Claim 16 and further comprising a scrubber mounted within the outer housing and configured for scraping accumulated debris from the strainer.

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2 19. The irrigation sprinkler of Claim 16 wherein the strainer has a finer mesh section and
a coarser mesh section.

20. The irrigation sprinkler of Claim 16 wherein the projections are formed as rounded
2 teeth.

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